

- A feature of the Windows Scripting
Host

```
C:\WMI> cscript /nologo ShowMemory.js
Total Physical Memory (kb): 261612
C:\WMI>
```

```
x C:\WINDOWS\System32\cmd.exe
                      508
532
576
588
764
816
924
984
1108
 esrss.exe
winlogon.exe
 services.exe
 lsass.exe
svchost.exe
suchost.exe
svchost.exe
svchost.exe
spoolsv.exe
mdm.exe 1236
                      1296
1348
1448
1464
NAVAPSUC.EXE
nvsvc32.exe
squid.exe
 svchost.exe
 ups.exe 1488
dnsserver.exe
                      1664
1684
1716
1736
dnsserver.exe
dnsserver.exe
pinger.exe
unlinkd.exe
explorer.exe
                      1308
824
1952
892
 ttask.exe
 fpdisp4.exe
fppdis1.exe
 und1132.exe
                      1976
1984
 HAUAPW32.EXE
Directcd.exe
                       1904
1628
ctfmon.exe
 CLICKER.EXE
 Proxomitron.exe 472
taskmgr.exe 216
taskmgr.exe
OUTLOOK.EXE
                      1576
592
3432
2812
 agentsvr.exe
explorer.exe
 mplayer.exe
I EXPLÓRE. EXE
cmd.exe 2720
LEMMY.EXE
                      3016
cmd.exe 3528
                      3728
3220
2528
1012
 miprvse.exe
POWERPNT.EXE
cscript.exe
C:\WMI> _
```

```
B Movember, 2002
```

```
sReqTypes = new Array(
                                   "n "REG SZ
    "REG EXPAND SZ
                                   "¬ "REG BINARY
    "REG DWORD
                                   "n "REG DWORD BIG ENDIAN
                                   "n "REG_MULTI_SZ
    "REG LINK
    "REG RESOURCE LIST
                                   ", "REG_FULL_RESOURCE_DESCRIPTOR ",
                                                                    ");
    "REG_RESOURCE_REQUIREMENTS_LIST", "REG_QWORD
HKLM = 0×80000002;
sReqPath = "SYSTEM\\CurrentControlSet\\Services\\Eventlog\\System";
oLoc = new ActiveX0bject("WbemScripting.SWbemLocator");
oSvc = oLoc.ConnectServer(null, "root\\default");
oReq = oSvc.Get("StdReqProv");
                                                         display all keys under
oMethod = oReg.Methods .Item("EnumValues");
                                                         HKLM\SYSTEM\CurrentControlSet\
oInParam = oMethod.InParameters.SpawnInstance ();
oInParam.hDefKey = HKLM;
                                                         Services\Eventlog\System
oInParam.sSubKeyName = sReqPath;
oOutParam = oReq.ExecMethod (oMethod.Name, oInParam);
aNames = oOutParam.sNames.toArray();
aTypes = oOutParam.Types.toArray();
```

WScript.Echo("Type: ", sRegTypesEaTypesEill, " KeyName: ", aNamesEil);

for (i = D; i < aNames.length; i++)

```
C: Carlotows Systems 2 (mdexe

C: Documents and Settings Rob Nesktop New Folder Scsript wni.js
Microsoft (R) Windows Stript Host Version 5.6
Copyright (C) Microsoft Corporation 1996-2881. All rights reserved.

Type: REG_EXPAND_SZ
Type: REG_MORD
T
```



- Open-source implementation of JavaScript written entirely in Java
 - Intended to be embedded into Java applications to provide a scripting facility to end users
 - Rhino 1.5 implements JavaScript 1.5
 - Contains the jsc JavaScript compiler



 Interactive mode makes it easy to do interactive program development

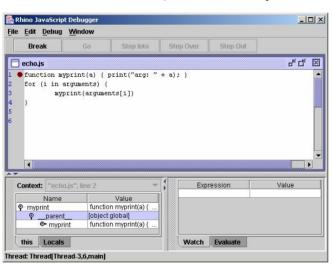
```
for (i in arguments) {
         print(arguments[i])
}
```

C:\rhino1_5R3\java -cp js.jar org.mozilla.javascript.tools.shell.Main echo.js on e two three
) one
two
three

C:\rhino1_5R3_

· Has a (quite primitive) debugger

C:\WINDOWS\System32\cmd.exe



Rhino...



Rhino...

- · Interacts very well with Java
 - Illustrates Netscape's LiveConnect idea
 - · Also found in the Netscape Browser
 - Almost a Java interpreter...(?)

```
C:\WINDOWS\System32\cmd.exe - java -jar is.ja
C:\Documents and Settings\Bob\Desktop\rj.t:
                                                       C:\RHIN01^1\)java -jar js.jar
Rhino 1.5 release 3 2002 01 27
js\) importPackage(java.awt);
frame = new Frame("Rhino/Java Test");
frame.show();
     Edit Search View Tools Help
importPackage(java.awt);
frame = new Frame("Rhino/Java Test");
                                                        frame.setSize(new Dimension(200,100));
button = new Button("Hello from Rhino");
frame.show();
frame.setSize(new Dimension(200,100));
                                                        frame.add(button);
js> java.awt.Frame[frame0,0,0,0x0,invalid,hidden,layout=java.awt.BorderLayout,ti
button = new Button("Hello from Rhino");
                                                        tle=Rhino/Java Test,resizable,normall
frame.add(button);
                                                             js> js> java.awt.Button[button0,0,0,0x0,invalid,label=Hello from Rhino] java.awt.Button[button0,0,0,0x0,invalid,label=Hello from Rhino]
frame.show();
                                                              frame.show();
                              Rhino/Java Test
                                                      _ U X
                                     Hello from Rhino
```